Recombinant Human Beta-hexosaminidase subunit beta (HEXB)

Product Code	CSB-YP010316HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P07686
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	TQVQQLLVS ITLQSECDAF PNISSDESYT LLVKEPVAVL KANRVWGALR GLETFSQLVY QDSYGTFTIN ESTIIDSPRF SHRGILIDTS RHYLPVKIIL KTLDAMAFNK FNVLHWHIVD DQSFPYQSIT FPELSNKGSY SLSHVYTPND VRMVIEYARL RGIRVLPEFD TPGHTLSWGK GQKDLLTPCY SRQNKLDSFG PINPTLNTTY SFLTTFFKEI SEVFPDQFIH LGGDEVEFKC WESNPKIQDF MRQKGFGTDF KKLESFYIQK VLDIIATINK GSIVWQEVFD DKAKLAPGTI VEVWKDSAYP EELSRVTASG FPVILSAPWY LDLISYGQDW RKYYKVEPLD FGGTQKQKQL FIGGEACLWG EYVDATNLTP RLWPRASAVG ERLWSSKDVR DMDDAYDRLT RHRCRMVERG IAAQPLYAGY CNHENM
Source	Yeast
Target Names	HEXB
Protein Names	Recommended name: Beta-hexosaminidase subunit beta EC= 3.2.1.52 Alternative name(s): Beta-N-acetylhexosaminidase subunit beta Short name= Hexosaminidase subunit B Cervical cancer proto-oncogene 7 protein Short name= HCC-7
Expression Region	122-556
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Hexosaminidase B is the beta subunit of the lysosomal enzyme beta-hexosaminidase that, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Beta-hexosaminidase is composed of two subunits, alpha and beta, which are encoded by separate genes. Both beta-hexosaminidase alpha and beta subunits are members of family 20 of glycosyl hydrolases. Mutations in the alpha or beta subunit genes lead to an accumulation of GM2 ganglioside in neurons and neurodegenerative disorders termed the GM2 gangliosidoses. Beta subunit gene mutations lead to Sandhoff disease (GM2-gangliosidosis type II).
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the

	contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.